



**Department of Natural Sciences**  
**Geology Course Syllabus**  
**Physical Geology: GEOL 1305**

<b>Semester with CRN</b>	<b>Fall 2017; CRN # 38618</b>
<b>Instructor contact information</b>	Dr. Atinuke Akingbade e-mail: <a href="mailto:atinuke.akingbade@hccs.edu">atinuke.akingbade@hccs.edu</a> <i>(is preferred Contact)</i> learning web: <a href="http://learning.hccs.edu/faculty/">http://learning.hccs.edu/faculty/</a>
<b>Office Hours</b>	On Canvas. By appointment only ,Please send e-mail
<b>Contact Method</b>	Please use school e-mails only. Expect a response within 24 hours
<b>Course Location/Times</b>	<b>Online</b>
<b>Course Semester Credit Hours</b>	Credit Hours: 3
<b>Total Course Contact Hours</b>	48.00
<b>Course Length</b>	8 Weeks
<b>Type of Instruction</b>	Online: Distance Learning (DE)

**Course Description:**

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. (Cross-listed with ENVR 1301)

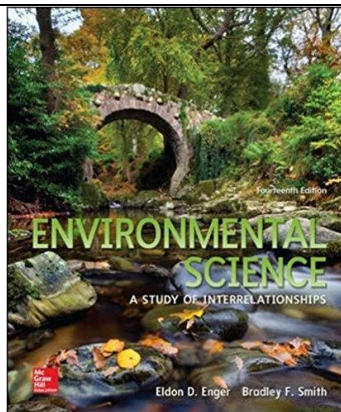
**Course Prerequisite(s)**

- GEOL 1105 Environmental Science (lab)
- Must be placed into college-level reading (or taking GUST 0342 concurrently) and be placed into college-level writing (or taking ENGL 0310/0349 concurrently).

**Required Textbook :**

**Environmental Science** by  
**Eldon D. Enger and Bradley F. Smith,**  
**14th Edition, McGraw**  
**Hill Publishers**

**<http://mhhe.com/enger14e>**  
**ISBN-13: 9780073532554**



**Important!!!!**

***You will be purchasing an Access Code for an Ebook –***

See note on below about purchase of this textbook

### Electronic Textbook –

This textbook is available ONLY as an e-textbook. You will be purchasing an access code at the Bookstore – NOT an actual hard-copy textbook. This access code will allow you to register at the textbook publisher's website (**McGraw-Hill ([www.connect.mheducation.com/](http://www.connect.mheducation.com/))**)

When you are at the publisher's website, you will register, **using ONLY your HCC email address** that is assigned to you by HCC during admission and registration. NO OTHER email addresses will be allowed. Be sure to write down your PASSWORD!! From there you will be asked to enter a "Course Web Address". Use the following address – copy and paste into the space indicated.

**<http://connect.mheducation.com/class/d-akingbade-fall-2017-tba>**

You may also purchase the access code at this time directly from the publisher (McGraw-Hill), and avoid the Bookstore mark-up. This may not be an option if you are on Financial Aid, check with your Financial Aid Advisor. If you are on Financial Aid, and are waiting for that to come in, **a 2-week "Courtesy Access" is available for free.** However, after 2 weeks, you will have to purchase the access code to retain access to the textbook and online materials

#### **An IMPORTANT NOTE about WEB Browsers:**

The Connect/McGraw Hill website works best with fully updated Firefox, Google Chrome, or Safari (for mac users). **DO NOT** use Internet Explorer –it flat-out will not work.

At that point, you will have access to all the materials available from the publisher, including the E-textbook (SMARTBOOK) and all study materials, including highlighting capability, practice quizzes, etc. A portion of the course grade will be determined by using and completing the LearnSmart assignments as indicated on the schedule.

*You will also be given an option to purchase, for \$25, a paper 3-hole punched hard copy of the textbook. Many students find they can read more easily and completely using a paper copy of the text, and prefer that. This is completely optional.*

**Online DE Orientation must be completed prior to beginning this course;  
See instructions at HCC Distant Ed Student page**

- It is your responsibility to make sure you start the course on time, log in regularly and meet all deadlines.
- **No accommodations will be made for missing an assignment deadline – this includes** technical difficulties, work or personal issues. Poor internet connectivity, poorly functioning computer, or any other technical issue are your responsibility to work around.
- **To meet this requirement, ALWAYS BEGIN YOUR WORK WELL BEFORE THE DEADLINE TO ALLOW SUFFICIENT TIME TO COMPLETE IT AND SUBMIT IT. THIS WILL ALLOW YOU TO WORK AROUND ANY TECHNICAL DIFFICULTIES.**
- **One of the biggest mistakes students make is under-estimating the amount of time required to study and complete assignments. Completing your work on time is only going to help you do well in this course.**
- **You MUST log in and complete the first week assignments by the due dates - Date of Record (September 5 2017) to avoid being dropped from this course.**
- **Print off a copy of the Course schedule and mark all due dates on your calendar.**

#### **Academic Discipline/CTE Program Learning Outcomes**

1. Students will recognize scientific and quantitative methods.
2. Students will evaluate the differences of scientific approaches and communicate these findings, analyses, and interpretations in oral and written communication.
3. Students will demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, religion, and public policies.
4. Students will demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.
5. Students will identify and recognize the differences in competing scientific theories.

### Course Student Learning Outcomes (SLO):

Upon successful completion of this course, students will:

1. Recognize, describe, and quantitatively evaluate earth systems, including the land, water, sea, and atmosphere, and how these function as interconnected ecological systems.
2. Assess environmental challenges facing humans caused by their interaction with the physical and biological environment (e.g., population growth, energy resources, food production, pollution, water and resource use).
3. Acquire a scientific vocabulary and critical thinking skills related to environmental science.
4. Assess the effectiveness and feasibility of environmental policy and its impact.

### Learning Objectives

- 1.1 List the four categories of limiting factors for organisms in an ecological systems (raw materials, energy, waste products and interactions among organisms).
- 1.2 Interpret environmental trends from data (graphs or histograms or tables)
  
- 2.1 Utilize population data (e.g., from the US Census Bureau at <http://www.census.gov/>) to determine population growth rate, and analyze impact on resource demand and waste production.
- 2.2. Calculate personal energy or resource consumption (e.g., via household electric meter readings or water usage).
- 2.3. Compare the use of fossil fuel, nuclear, and renewable energy consumption (wind, solar, biomass and hydroelectric).
- 2.4. Discuss current events related to environmental science as reported by news media.
  
- 3.1. Discuss the reliability of science through the Scientific Method in resolving environmental problems. 3.2. Discuss the chemical behavior of matter and states of matter (solid, liquid, or gas) in relation to kinetic and potential energy.
- 3.3. Support the notion that energy cannot be created nor destroyed, but when energy is converted from one form to another, some energy is converted into a less useful form.
  
- 4.1 Explore how the political process impacts environmental decision making.
- 4.2 Evaluate significant environmental policies (e.g., clean air act, recycling nuclear fuel rods) related to what procedures are actually in place.

### Core Curriculum Objectives

This course is in the Life and Physical Science Core Curriculum “functional component area” and meets the objectives of:

- **Critical Thinking Skills** -- to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Communication Skills** -- to include effective development, interpretation and expression of ideas through written, oral and visual communication
- **Empirical and Quantitative Skills** -- to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- **Teamwork** -- to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Course and Assignment Outline (TENTATIVE).** Always check you announcements for updates to the course schedule

Week	Text Chapters	Titles / Chapters	LearnSmart	Activities and Assignments (Due end of week)
1:				
	Pre class	1) Start here 2) Scavenger		Should be done before the end of First week This is a graded assignment
07/28-09/01	1	Introduction and Course Overview / Environmental Interrelationships	Chapter 1 Due Friday 09/01	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter1 quiz</li> </ul>
	2	Environmental Ethics and Policies	Chapter 2 Due Friday 09/01	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter2 quiz</li> </ul>
	3	Environmental Risk: Economics, Assessment, and Management	Chapter 3 Due Friday 09/01	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter3 quiz</li> </ul>
	4	Interrelated Scientific Principles: Matter, Energy, Environments	Chapter 4 Due Friday 09/01	<ul style="list-style-type: none"> <li>View PowerPoint Presentation</li> <li>Take end of chapter4 quiz</li> </ul>
	Class Participation			Contribute to this week's Discussions
2:				
09/04-09/08	5	Interactions: Environment and Organisms	Chapter 5 Due Friday 09/08	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter5 quiz</li> </ul>
	6	Kinds of Ecosystems and Communities	Chapter 6 Due Friday 09/08	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter6 quiz</li> </ul>
	Review			SEE EXAM REVIEW On CONNECT
	Exam 1	Chapters 1 to 6	NO MAKEUPS!!!!	09/10/2017
3:				
09/11-09/15	7	Population Principles and Human Population Issues	Chapter 7 Due Friday 09/15	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter7 quiz</li> </ul>
	8	Energy and Civilization	Chapter 8 Due Friday 09/15	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter8 quiz</li> </ul>
	9	Nonrenewable Energy Sources	Chapter 9 Due Friday 09/15	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter9 quiz</li> </ul>
	10	Renewable Energy Sources	Chapter 10 Due Friday 09/15	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter10 quiz</li> </ul>
	Class Participation			Contribute to week's Discussion
4:				
09/18-09/22	11	Biodiversity Issues	Chapter 11 Due Friday 09/22	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter11 quiz</li> </ul>
	12	Land Use Planning	Chapter 12 Due Friday 09/22	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter12 quiz</li> </ul>
	Review			SEE EXAM REVIEW on CONNECT
	Exam 2	Chapters 7 to 12	NO MAKEUPS!!!!	09/24/2017
5:				
09/25-09/29	13	Soil and its Uses	Chapter 13 Due Friday 09/29	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter13 quiz</li> </ul>
		<b>LAST DAY TO WITHDRAW</b>		<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter14 quiz</li> </ul>
	14	Agriculture and Pest Management	Chapter 14 Due Friday 09/29	
	Class Participation			Contribute to week's Discussion
6:				
10/2-10/06	16	Air Quality Issues	Chapter 16 Due Friday 10/06	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter16 quiz</li> </ul>
	17	Global Warming and Climate Change	Chapter 17 Due Friday 10/06	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter17 quiz</li> </ul>
	Review			SEE EXAM REVIEW On CONNECT
	Exam 3	Chapter 13 to 19	NO MAKEUPS!!!!!!	
7:				
10/09-10/13	18	Solid waste Management and Disposal	Chapter 18 Due Friday 10/13	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter18 quiz</li> </ul>
	19	Environmental Regulations: Hazardous and Toxic Materials	Chapter 19 Due Friday 10/13	<ul style="list-style-type: none"> <li>View Powerpoint Presentation</li> <li>Take end of chapter19 quiz</li> </ul>
	Project due	Project due	Project due	Project due

	<b>Class Participation</b>	<b>OCT 19 -21</b>		<b>Contribute to week's Discussion</b>
<b>8:</b>		<b>FINAL EXAMS OCT 19 -21</b>		<b>WILL BE AVAILAIBLE FOR 2DAYS</b>
<b>10/16-10/20</b>	<b>REVIEW</b>	<b>WILL BE AVAILAIBLE FOR 2 DAYS</b>	<b>NO MAKEUPS!!!!</b>	<b>OCT 19 -21</b>
	<b>FINALS</b>			

**Instructor Grading Criteria**

<b>Grade Item</b>	<b>Break Down of Item</b>	<b>Points</b>	<b>Total Points</b>	<b>Final Percent (%)</b>
<b>Assignment groups</b>	LearnSmart (Connect)	<b>100</b>	<b>280</b>	<b>28</b>
	End of Chapter homework	<b>100</b>		
	End of Week Discussions	<b>80</b>		
<b>Exams</b>	Exam 1	<b>150</b>	<b>450</b>	<b>45</b>
	Exam 2	<b>150</b>		
	Exam 3	<b>150</b>		
<b>Online Class Participation</b>	<b>Class contributions / New Article Reponses/collaborations</b>	<b>50</b>	<b>70</b>	<b>7</b>
<b>Pre Class Assignments</b>	Start here and Scavenger	<b>20</b>		

<b>Course Project</b>	Project	<b>50</b>	<b>50</b>	<b>5</b>
<b>Final Exam</b>	<b>Comprehensive</b>	<b>150</b>	<b>150</b>	<b>15</b>
<b>Grand Total</b>		<b>1000</b>	<b>1000</b>	<b>100</b>

**HCC Grading Scale:**

A = 100 – 90; .....4 points per semester hour  
 B = 89 – 80: .....3 points per semester hour  
 C = 79 – 70: .....2 points per semester hour  
 D = 69 – 60: .....1 point per semester hour  
 59 and below = F.....0 points per semester hour

IP (In Progress) .....0 points per semester hour  
 W(Withdrawn).....0 points per semester hour  
 I (Incomplete).....0 points per semester hour  
 AUD (Audit) .....0 points per semester hour  
 FX (Failure due to non-attendance).....0 points per semester hour

IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses. To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.

FINAL GRADE OF FX: Students who stop attending class and do not withdraw themselves prior to the

withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of "FX" at the end of the semester. Students who stop attending classes will receive a grade of "FX", compared to an earned grade of "F" which is due to poor performance. Logging into a DE course without active participation is seen as non-attending. Please note that HCC will not disperse financial aid funding for students who have never attended class

Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of "FX" is treated exactly the same as a grade of "F" in terms of GPA, probation, suspension, and satisfactory academic progress.

*To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA*

*Health Sciences Programs Grading Scales may differ from the approved HCC Grading Scale. For Health Sciences Programs Grading Scales, see the "Program Discipline Requirements" section of the Program's syllabi*

**HCC Policy Statement:**

Please familiarize yourself with campus policies in the HCC Student Handbook for topics including: ADA (students with disabilities), Scholastic Dishonesty, General Student Attendance, Repeating courses, Electronic Devices in class, Threatening Behavior, Religious Holidays, withdrawal deadline and mores: <http://www.hccs.edu/district/students/student-handbook/>

**Student with Disabilities (ADA):**

If you have any special needs or disabilities, which may affect your ability to succeed in college classes or participate in college programs/activities, please contact the office of disability support services at the college. Upon consultation and documentation, you will be provided with reasonable accommodations and/or modifications. Please contact the DSS office as soon as you begin the term. <http://www.hccs.edu/district/students/disability-services/ada-counselors/>

**Central College**

713.718.6164

**Coleman College**

713-718-7376

**Northeast College**

713-718-8322

**Northwest College**

713-718-5667

713-718-5408

**Southeast College**

713-718-7053

**Southwest College**

713-718-7909

**Adaptive Equipment/Assistive Technology**

713-718-6629

713-718-5604

**Interpreting and CART services**

713-718-6333

### **Withdrawal Policy**

The withdrawal deadline is APRIL 14 2017 for all second start classes. Please see the school calendar at <http://www.hccs.edu/district/events-calendar/academic-calendar/>

Last Day for 100% refund.....August 25 2017  
**FALL 2017 8 WK DE Classes begins August 28 2017**  
Official Day of Record .....September 5 2017  
Last Day for 70% refund.....September 6 2017  
Last Day for 25% refund .....September 8 2017  
Last day for administrative/student withdraw ....October 2 2017

The State of Texas imposes penalties on students who withdraw/drop courses excessively. Students are limited to no more than SIX total course withdrawals throughout their educational career at a Texas public college or university. Students are encouraged to review the **HCC 6 Drop Policy**.

Students who repeat a course three or more times face significant tuition/fee increases at HCC and other Texas public colleges and universities. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as early as possible about your study habits, reading and writing, homework, test-taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available

**Religious Holidays:** If you observe a religious holiday and miss class, you must notify your instructor in writing two weeks in advance to arrange to take a test or make up an assignment. A religious holiday is “a holy day observed by a specific religion and the place of worship is exempt from property taxation under Section 11.20 of the Tax Code.”

**Policy on Electronic Devices:** The use of electronic devices by students in the classroom is up to the discretion of the instructor. Any use of such devices for purposes other than student learning is strictly prohibited. If an instructor perceives such use as disruptive and/or inappropriate, the instructor has the right to terminate such use. If the behavior continues, the student may be subject to disciplinary action to include removal from the classroom or referral to the Dean of Student Services. Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations

**HCC Sexual Harassment Policy and Title IX:** Title IX of the Education Amendments of 1972 requires that institutions have policies and procedures that protect students’ rights with regard to sex/gender discrimination. Information regarding these rights is on the HCC website under Students-Anti- discrimination.

Students who are pregnant and require accommodations should contact any of the ADA Counselors for assistance. It is important that every student understands and conforms to respectful behavior while at HCC. Sexual misconduct is not condoned and will be addressed promptly.

Log in to <http://www.edurisksolutions.org>. Sign in using your HCC student email account, and then go to the button at the top right that says **Login** and enter your student number.

### **Student Rights and Responsibilities:**

<http://www.hccs.edu/district/about-us/policies/d-student-services/d4-student-rights--responsibilities/> and in the Student Handbook

### **EGLS<sub>3</sub> -- Evaluation for Greater Learning Student Survey System**

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

**TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, 20 U.S.C. A§ 1681 ET. SEQ.** Title IX of the Education Amendments of 1972 requires that institutions have policies and procedures that protect students' rights with regard to sex/gender discrimination. Information regarding these rights are on the HCC website under Students-Anti-discrimination. Students who are pregnant and require accommodations should contact any of the ADA Counselors for assistance. It is important that every student understands and conforms to respectful behavior while at HCC. Sexual misconduct is not condoned and will be addressed promptly. Know your rights and how to avoid these difficult situations. Log in to: [www.edurisksolutions.org](http://www.edurisksolutions.org). Sign in using your HCC student e-mail account, then go to the button at the top right that says Login and enter your student number

### **HCC Campus Carry Policy**

At HCC the safety of our students, staff, and faculty is our first priority. As of August 1, 2017, Houston Community College is subject to the Campus Carry Law (SB11 2015). For more information, visit the HCC Campus Carry web page at <http://www.hccs.edu/district/departments/police/campus-carry/>."